

**PATENT**

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**CERTIFICATE UNDER 37 CFR 3.73(b)**

**Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation**  
 (Name of Assignee)(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

Serial No.	Filing Date	Assignment Information
10/038,388	01/03/2002	Assignment recorded in the Patent and Trademark Office at Reel 012509, Frame 0486
10/420,285	04/22/2003	Assignment recorded in the Patent and Trademark Office at Reel 013993, Frame 0178
10/421,187	04/23/2003	Assignment recorded in the Patent and Trademark Office at Reel 014006, Frame 0418
10/421,200	04/23/2003	Copy of Assignment attached
10/666,493	09/19/2003	Assignment recorded in the Patent and Trademark Office at Reel 015073, Frame 0448
10/687,183	10/16/2003	Assignment recorded in the Patent and Trademark Office at Reel 014618, Frame 0232
10/694,684	10/28/2003	Assignment recorded in the Patent and Trademark Office at Reel 014648, Frame 0411
10/694,676	10/28/2003	Assignment recorded in the Patent and Trademark Office at Reel 014648, Frame 0394
10/728,215	12/04/2003	Assignment recorded in the Patent and Trademark Office at Reel 014777, Frame 0979
10/728,216	12/04/2003	Assignment recorded in the Patent and Trademark Office at Reel 014777, Frame 0937
→ 10/729,458	12/05/2003	Assignment recorded in the Patent and Trademark Office at Reel 014776, Frame 0488

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10/742,965	12/22/2003	Assignment recorded in the Patent and Trademark Office at Reel 014841, Frame 0955
10/753,637	01/08/2004	Assignment recorded in the Patent and Trademark Office at Reel 014880, Frame 0931
10/755,503	01/12/2004	Assignment recorded in the Patent and Trademark Office at Reel 014896, Frame 0965
10/757,204	01/14/2004	Assignment recorded in the Patent and Trademark Office at Reel 014898, Frame 0602
10/759,670	01/16/2004	Assignment recorded in the Patent and Trademark Office at Reel 014919, Frame 0222
10/761,002	01/20/2004	Assignment recorded in the Patent and Trademark Office at Reel 014907, Frame 0703
10/762,165	01/21/2004	Copy of Assignment attached
10/810,966	03/26/2004	Assignment recorded in the Patent and Trademark Office at Reel 015157, Frame 0203
10/916,797	08/12/2004	Assignment recorded in the Patent and Trademark Office at Reel 012151 Frame 0558

The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 12/17/2004 By:   
 Name: Chien-Wei Chou  
 Title: Director, Intellectual Property Division